

Patent claims

1 – 10 (canceled)

11. (new) A bearing for axially mounting a rotor of a gas turbine, comprising:
a rotationally fixed bearing body that has a hydraulic piston arrangement for axially displacing the rotor from a first operating position into a second operating position; and
a hydraulic system fluidically connected to the hydraulic piston arrangement,
wherein to limit the displacement speed of the rotor, at least one restrictor arranged in the bearing body and intended for the hydraulic medium is provided between the hydraulic piston arrangement and the hydraulic system.

12. (new) The bearing as claimed in claim 11, wherein the restrictor is formed by flow constrictions arranged in the bearing body and without a line being interposed.

13. (new) The bearing as claimed in claim 11, wherein the hydraulic piston arrangement has a plurality of pistons arranged in corresponding respective piston chambers.

14. (new) The bearing as claimed in claim 11, wherein the piston chambers are bores of cylindrical design.

15. (new) The bearing as claimed in claim 11, wherein the piston chambers are fluidically connected to one another.

16. (new) The bearing as claimed in claim 11, wherein the hydraulic piston arrangement is of annular design.

17. (new) The bearing as claimed in claim 11, wherein two hydraulic piston arrangements formed separately from one another are provided and are arranged opposite one another on the bearing body.

18. (new) The bearing as claimed in claim 17, wherein the two hydraulic piston arrangements are fluidically connected to one another.

9. A bearing for axially mounting a rotor of a gas turbine, comprising:
a rotationally fixed bearing body that has a hydraulic piston arrangement for axially displacing the rotor from a first operating position into a second operating position; and
a hydraulic system fluidically connected to the hydraulic piston arrangement,
wherein to limit the displacement speed of the rotor, at least one restrictor arranged in the bearing body and intended for the hydraulic medium is provided between the hydraulic piston arrangement and the hydraulic system and having two hydraulic piston arrangements that are fluidically connected to one another with a 4/2-way directional control valve interposed.

10. A gas turbine having a bearing, comprising:
a rotationally fixed bearing body that has a hydraulic piston arrangement for axially displacing the rotor from a first operating position into a second operating position; and
a hydraulic system fluidically connected to the hydraulic piston arrangement,
wherein to limit the displacement speed of the rotor, at least one restrictor arranged in the bearing body and intended for the hydraulic medium is provided between the hydraulic piston arrangement and the hydraulic system.